2. Primary energy is the total months and powers
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development,

MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

1. This memorandum is in response to your request for comparative data on the growth of primary energy production

in the Sino-Soviet Bloc and the Free World.

3 %. Sino-Soviet Bloc plans collision a higher rate of

growth in the production of energy than to the Free

World. By 1960, the Bloc production at energy will rise to about

productions

40 percent of the amount to be seemed by the Free World as

In 1960 if will nieuer & about 40 percent Despite the compared to about 30 percent in 1955. The absolute difference, relative increase the gop between the Bloc anothe free world however, by which the energy output of the Free World exceeds

will not decrease. In feet the Free World principle energy

Bloc energy output will be slightly larger in 1960 than in 1955.

production will encueure 15,200 trillen Bloc while Bloc production, the There will Bloc production, unlike that of the Free June 12,600 trillen Bloc energy production, unlike that of the Free June 1960.

Worlds is primarily dependent upon solid fuels. By 18602, orly specially dependent upon petaleur specialist upon petaleur Bloc production of solid fuels, which amounted to about 58 products. As Bloc production of petaleur incurses

bewere, the importance of solid feel is decli

percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free World. However by 1960, solid fuels are expected to supply about 75 percent of total Bloc energy production compared with about 81 percent in 1955. The declinate the Grude oil and natural gas will become relatively more important as a source of Stor energy. In 1960 they will be account for 25 pour the source of about one quarter of total Bloc energy as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, compared with only 10 percent today. 5. In 1955 hydro-absolute plants contributed a very small part to the total world production of primary energy a first one percent to the Sino-Soviet Bloc total and 2 percent to the Free World total. These sheess will not change significantly by 1960. 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity nuclear programs of the US and USSR in 1960

Approved For Release 2001/04/27: CIA-RDP79T01049A001300170007-9 still will exceed the contribution made to the national energy plants powered with nealer ficel. The USSR has announced 1960 god of from 2, the 200 of 250,000 middles kilowatts of miclear energy capacity, which depending these prover plants could supply billion kilowatt hours of electricity annually. Under these Lotal,
percent of Soviet electric conditions, over sixpon would be supplied from nuclear energy in 1960. Announced US plants provide for only 0.8 million kilowatts about one half of one percent of the ferencest total US the electrical energy output forcast for 1960 The USSR, having produced 58 percent of the Bloc's total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World sup

output will drop very slightly and will amount to about one

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half of the Free World total in 1960.

8. The attached table presents detailed data on the

regionalx production of primary energy by principal categories.

The charts present these data graphically.

OTTO E. GUTHE Assistant Director Research and Reports

STATINTL

nn/e/#

djs/x3011 (31 Jan 36)

MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

1. This memorandum is in response to your request for comparative data on the growth of primary energy production

preduced from solid freels, petroleum, and water penser.

During next five years

growth in the production of energy than is for the Free World. By 1960, the Bloc production of energy will rise to about

Bloc ency production in 1955 was a fine world and will use by 1960 to compared to about 30 percent in 1955. The absolute difference, when the relation content the gap will encode about 5 and the however, by which the energy output of the Free World exceeds

Bloc energy output will be slightly larger in 1960 than in 1955.

3. Soviet Bloc energy production, unlike that of the Free World, is primarily dependent upon solid fuels. By 1960m, Bloc production of solid fuels, which amounted to about 58

percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free World.

However, by 1960, solid fuels are expected to supply about

75 percent of total Bloc energy production compared with about

81 percent in 1955, where it is supply about

- 4. Crude oil and natural gas will become relatively more important as a source of Bloc energy. In 1960 they will be the source of about one quarter of total Bloc energy as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, compared with only 10 percent today.
- 5. In 1955 hydro-electric plants contributed a very small part to the total world production of primary energy, m 0.5 percent to the Sino-Soviet Bloc total and 2 percent to the Free World total. These shares will not change significantly by 1960.
- 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity by nuclear programs in the US and USSR in 1960

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still will exceed the contribution made to the national energy supply by these programs.

Announced US plants provide for only 0.8 million kilowatt capacity by 1960. This is equivalent to about five billion kilowatt-hours annually, or about one half of one percent of the forecast total US 1960 electrical energy output.

7. The USSR, having produced 58 percent of the Bloc's total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World EMP output will drop very slightly and will amount to about one

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half of the Free World total in 1960.

8. The attached table presents detailed data on the regionalx preduction of primary energy by principal categories.

The charts present these data graphically.

OTTO E. GUTHE Assistant Director Research and Reports

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MEMORANDUM FOR:

Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

1. This memorandom is in response to your request for comparative data on the growth of primary energy production in the Sino-Soviet Bloc and the 2 X. Sino-Soviet Bloc plans call for a higher rate of Free World.

growth in the production of energy than is foreseen for the West. By 1960, the Bloc production of energy will rise to about 40 percent of the amount to be produced by the West, as compared to The absolute amount, however, by about 30 percent in 1955.

which the energy output of the Free World exceeds Bloc energy output will be slightly larger in 1960 than in 1955.

Soviet Bloc energy production, unlike that of the Free World, is primarily dependent upon solid fuels. By 1960, Bloc production of solid fuels, which amounted to about 58 percent of the output of the Free World in 1955, will increase to about 78 percent of the output foreseen for the Free World.

The dependence of the Bluc on solid fuels, however, will decline

However, by solid feels are Lightly, and 1960, it is expire expected that they will to

Support only 75 percent of total Bloc energy production rather

than about 81 percent in 1955, and liquid full will

as a source of Bloc energy. They will become the source of about one-quarter of total Bloc energy in 1260 as compared with 18 percent today. Energy produced by the Bloc from these sources in 1960 will be about 16 percent of that to be produced by the Free World, Today it amounts to only 10 percent

ve World output.

- In 1955 hydro-electric plants contributed a very small part to the total world production of primary energy, 0.5 percent to the Sino-Soviet Bloc total and 2 percent of Free World total.

 These shares will not change significantly by 1960.
- 6. Nuclear energy produced electricity will not affect significantly the output of power in 1960. The consumption of electricity by nuclear programs in the US and USSR in 1960 with still will exceed the contribution made to the national energy supply by these programs. ThexessR

The USSR has announced a 1960 goal of from 2 to 2.5
million kilowatts of nuclear energy capacity, which-depending
on unevaluated technical factors-could yield as much as 20

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billion kilowatt-hours of electricity annually. The total

Condition, four 6

Soviet output, of electrical powers in 1960 would be increased

Aufflied from nuclear increase.

by seven or eight percent if this goal, which will require the highest priority, is achieved.

7. The USSR, having produced 58 percent of the Bloc's total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World output will drop very slightly and will amount to about one half of the Free World total in 1960.

8. The attached table presents detailed data on the regional production of primary energy by principal categories. The charts present the data graphically. Assistant Director Research and Reports

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